

A most Curious and Exact Calculation and Description of the TRIPLE CONJUNCTION,
of the three Superior Planets, *Saturn*, *Jupiter*, and *Mars*, in December 1723. Shewing how and when they pass by each other;
as also the Transit of *Mercury* over the Sun's Disk, in October next. Done by CHARLES LEADBETTER, Author of
The Treatise of Eclipses, and Teacher of the Mathematicks, at the Hand and Pen, in Cock-Lane, near St. Paul's, London. A
Work very useful for all Gentlemen, Students in Astronomy, and others: To whom this Sheet is humbly Presented by the
Author.

From Scientia Stellarum.

Time of equal Conjunction,	Long. ♂	Anom. ♂
	h. o' m' s'	h. o' m' s'
1723.	9 20 37 32	6 12 49 41
December 29.	18 25 49 7	11 25 48 4
Hours —	7 17 15	17 15
Minut. —	46 1 39	1 39
Mean M. ♂	9 36 45 33	6 8 50 39
Equation add	18 39	
Sun's Places	9 37 4 12	
Logar. ♂ 2 0	4.99230	

N. B. The 27th Day of December, the Equation of Time is 7° 1", which Sub. from the equal Time 9° 7' 40" leaves the apparent Time 27° 7' 39" 19". And on the 29th Day, the Equation is 7° 57" Sub. from the equal Time of the Conjunction 39° 38' 56" 54" leaves 39° 9' 18" 57", the apparent Time; at which time from A.C. keep it in 7° 34° 18' 39" with 34° Latitude South Ascendit. These three Planets Mars near together several Days before and after the Conjunction; but cannot be seen without a good Telescope, because the Sun is less than 18 deg. below the Horizon when they Rise.

From Astronomia Carolina.

Equal Time,	Anomaly ♂	Era Equinox
h. o' m' s'	h. o' m' s'	h. o' m' s'
1723.	6 19 39 32	39 18 0
December	11 29 44 52	44
Days —	10 29 11 51	
Hours —	20 34 51	
Minut. —	22 1 51	39 13 36
Seconds —	24 1	19 43 11
Mean Anoma.	6 11 14 0	14 39
	6 11 14 0	14 39

Equal Time.	Long. ♀	Anom. ♀	Node ♀	Long. ♀	Anom. ♀	Node ♀	Long. ♀	Anom. ♀	Node ♀
	h. o' m' s'	h. o' m' s'	h. o' m' s'	h. o' m' s'	h. o' m' s'	h. o' m' s'			
1723.	8 8 31 0	11 9 38 0	3 21 45 0	7 24 37 0	1 14 7 0	3 7 23 0	2 8 2 0	6 35 0	1 18 12 0
December 27.	18 5 0	12 4 0	21 28 2	1 0 1 0	0 0 0	19 27 38	6 9 21 0	9 10 0	6 53 23
Hours —	7 35	35	4 29 43 2	1 27	1 27 5	12 4 38	9 10	9 10 6	18 41 23
Minut. —	40	3	—	8	8	—	52	52	—
Mean M. ♀	8 26 28 8	11 42 2 9	—	8 24 39 35 2	1 14 8 35	4 52 376	8 17 23 2	15 35 2	5 17 516
Equation add	58 24	—	8 898904	5 11 57	8 30 46	9 26854	10 29 39	53 16 47	9 81714
Heliocentric ♀	8 21 28 2	45 0 0	add	8 19 27 38	49 0 0	add	8 6 53 23	45 0 0	add
○ Place	9 17 4 12	ct. 50 34 9	9 91505	9 17 4 12	55 30 49	9 83691	9 19 4 12	78 16 47	9 31793
An. Commut.	0 25 36 10	1. 12 48 5	9 758645	0 27 36 34	13 48 17	9 39042	1 10 49 6	20 5 25	9 50319
Half	0 12 48 5	1. 10 35 1	9 27150	0 13 48 17	9 34 49	9 22733	20 5 24	4 20 57	8 88812
Parallax add	—	—	—	23 23 6	Ellongation.	—	15 44 28	24 26 22	Ellongation.
Geocent. — ♀	2 13 4	23 23 6	Parallax.	8 23 41 6	4 13 28	Parallax.	8 22 37 51	15 44 28	Parallax.
As f. Com.	—	2 13 4	—	8 23 41 6	4 13 28	—	—	—	—
To f. Ellio.	—	—	—	0 364586	C. A. 27 36 34	0 334005	—	—	—
So f. Incli.	—	—	—	—	9 598689	—	—	—	—
To f. Geocen.	—	—	—	23 23 6	—	—	—	—	—
Lat. N. D.	1 9 52	8 308110	N.D. 21 36	1 15 54	7 798059	—	0 35 35	8 014946	—
	—	—	—	—	—	—	S. A. 22 49	7.822073	—

From Astronomia Carolina.

Equal Time. Anom. ♀ h. o' m' s' ♀ h. o' m' s'

1723. 10 28 50 0 6 6.003424 0 15 11 50 3.722131

December 30 12 46 0 4.992565 1 0 19 44 4.992565

Days — 11 10 33 8 84 25 46 27 45 11 79 26 29

Hours — 58 23 Sub. 45 0 0 2 24 35 45 0 0 34 26 29

Minutes — 26 45 31 13 45 13 5 14 50 17 0 10 27 42

Seconds — 18 11 22 27 7 19 35 22 4 32 35

M. Anom. 1. 11 29 12 25 E. 14 7 59 25 7 59

12 1 * Y. 7 22 16 17 P. 2 22 27 8 24 3 25

P. Equinox 0 29 13 36 0 29 13 36 41 42

Heliocen. ♀ 8 21 40 58 8 19 30 50

○ Place 9 19 11 24 9 19 11 24

Commutation. 0 27 30 26 0 29 40 34

Half 0 13 45 12 0 14 50 17

Parallax add 2 22 27 4 32 25

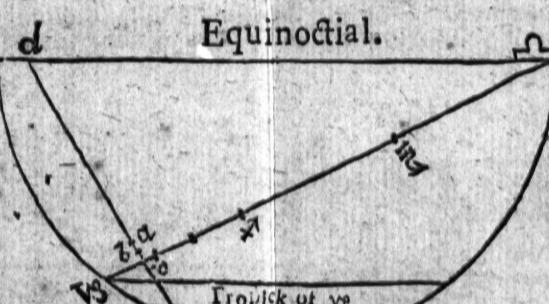
Geocent. — ♀ 8 24 3 25 8 24 3 25

As f. Com. Co Ar. 27 30 56 0 335489 29 40 34 0 305509

To f. Ellen. 25 7 59 9.628103 25 7 59 9.628103

So f. Inc. 1 15 8 8.339653 0 24 21 7.830149

To f. Lat. N. D. 1 9 5 8.303215 N.D. 20 53 7.783361



the opposite to ♀ is Gemini the Ascendant of London, a double body'd Sign also, which are the Places most chiefly to be concern'd in the Effects of this great and uncommon Conjunction; but those that desire to be more particular in the effects, let them read Lilly's *Merlinus Anglicus Astrologicus*, Page 59 and 62, and also Mr. William Beevenson's *Prodromus Astrologicus*, Page 24. &c. In this Diagram, the Line mark'd with the Signs of the Zodiac is the Ecliptic, near which Line these three Planets always keep, vix. they are found sometimes on the North Side, (as at this Time *Saturn* and *Jupiter* are) and then they are said to have North Latitude; at another Time they are found in the Ecliptic, and then they are said to have no Latitude: At other Times they are found on the South Side thereof, (as *Mars* now is) and then they are said to have South Latitude; and this Wandering of them, is caused by their Orbits lying out of the Plane of the Ecliptic; for *Saturn*'s Heliocentric Orbit makes an Angle with the Ecliptic of 2° 30' 30": *Jupiter*'s of 1° 53', and *Mars*'s of 1° 51', and their Geocentric Orbits, doth not often differ much from the Heliocentric: Now *Saturn*'s North Node is in ♈ 21° 45', *Jupiter*'s in ♉ 7° 23'; and *Mars* in ♊ 18° 12'; they sometimes are near the Earth, and at another Time far removed; they also move at one Time direct, according to the Order of the Signs from ♈ to ♉, at another Time Retrograde or backward, as from ♉ to ♈, &c. but there is no such real backward Motion in themselves, but only such an Appearance to us at the Earth, caused by the Earth's Motion: And all these Laws of Motion was given them at the Creation by their allwise Creator, which Bounds they cannot pass. A Conjunction of two or more Planets, is, when they by their Motion in Longitude are at one and the same Time upon one Circle of Longitude, as here the two black Dots marked with a and b, in the Line d e, we suppose to represent *Saturn* and *Jupiter* in Conjunction, for the Line d e, cuts the Ecliptic at Right Angles, and is supposed to be continued thro' the Poles of the Ecliptic: The black Dot marked with a, we put to represent *Mars*, which you see is not on the Circle of Longitude d e, and consequently is not in true Conjunction with them: *Saturn* is Elevated above *Jupiter* 48° 16", and they rise at London Dec. 28, 1722. 1° 41' before the Sun, nearly S. E. half Easterly, but can scarcely be seen with the naked Eye, because they rise in the Twilight. I must beg leave further to acquaint the Reader, that this Conjunction is not any Thing out of the Order or Course of Nature: No! It is what is common amongst the Planets, they are not Comets or blazing Stars, as the common People believe them to be; *Saturn* and *Jupiter* meet once in twenty Years (See my *Treatise of Eclipses*, Page 90) but then *Mars* doth not always attend them; he was with them in the Year 1524, and Anno 1604. and now he attends very close, but will not meet them both together again until the Year 1841. So what I have more to add on this Conjunction is, I pray God preserve those Places and People subject to its Effects, from Plague, Pestilence, and Famine; from Battle and Murder and from sudden Death, good Lord deliver us. Amen.

ANNO 1723, on Tuesday October 29, in the Evening, the Planet Mercury Transit's the Sun's Disk, which will be seen in America, by such as are qualify'd and fitted with proper Instruments for that purpose, a Synopsis of the Calculation follow: ASTRO NOMIA CAROLINA, by CHARLES LEADBETTER.



London: Printed by S. C. and Sold by the Pamphlet-Sellers of London and Westminster. (Price Four-Pence.)

All Sorts of Mathematical Instruments, are Made and Sold by JOHN SMITH, at the Globe, in Swithin's-Alley, by the Royal Exchange.